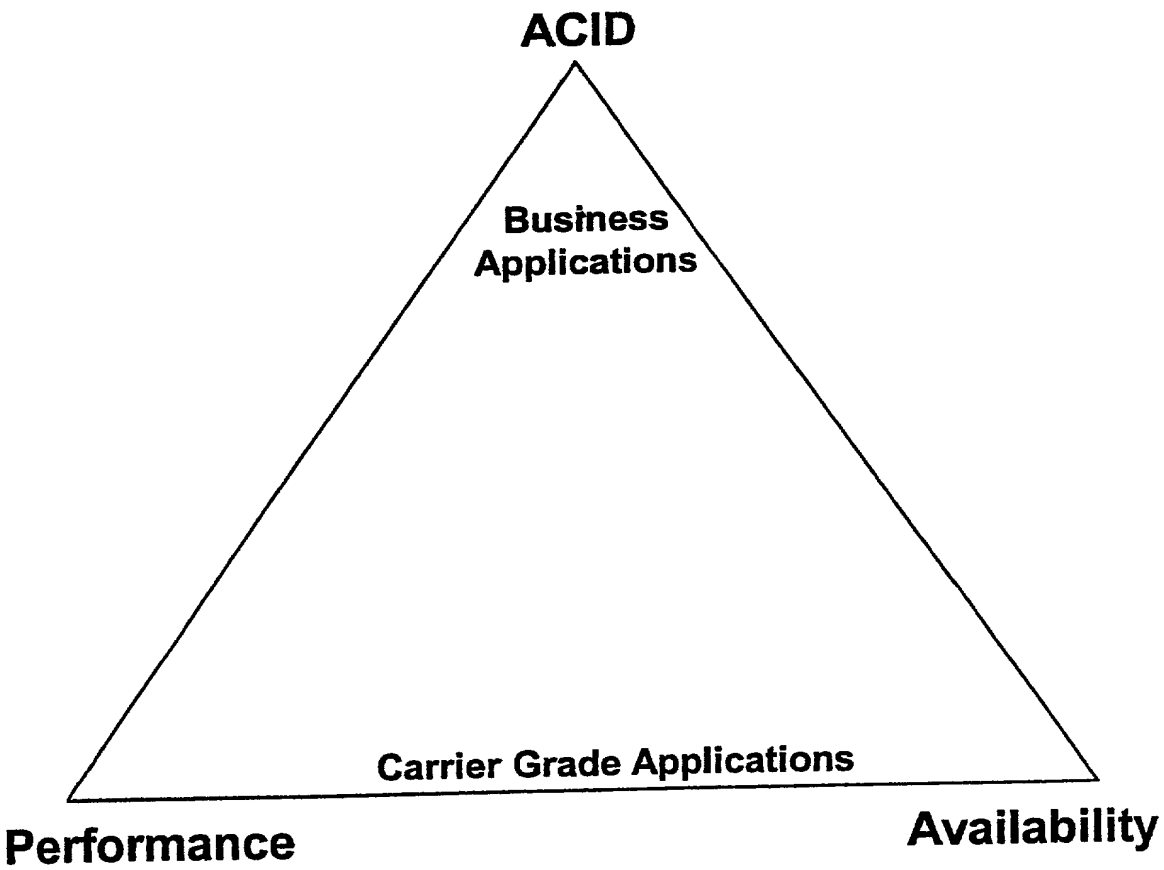

FIGURE 1
(Prior Art)

FOREIGN 6TH2S2360

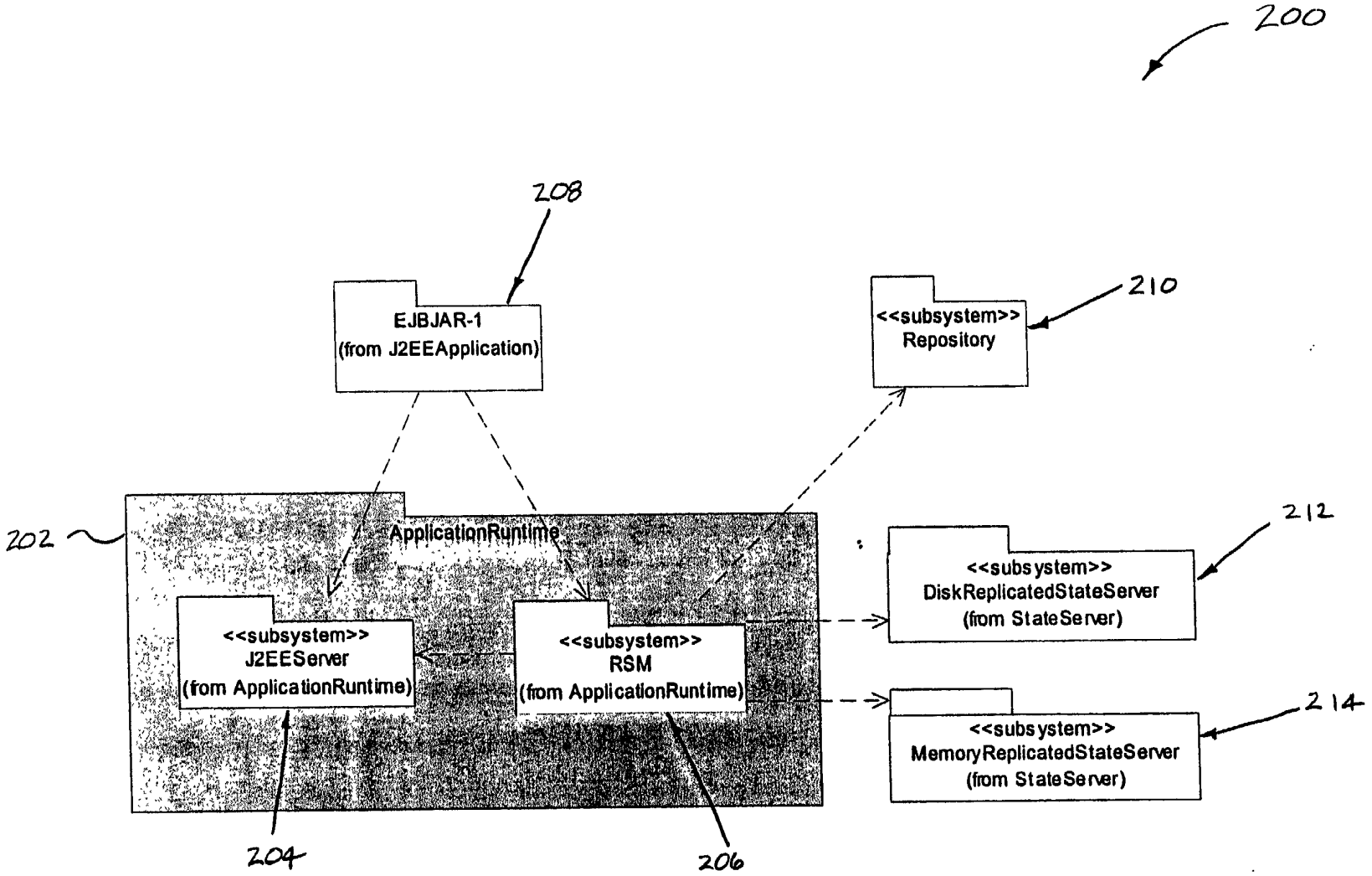

Fig. 2

Docket 6112860

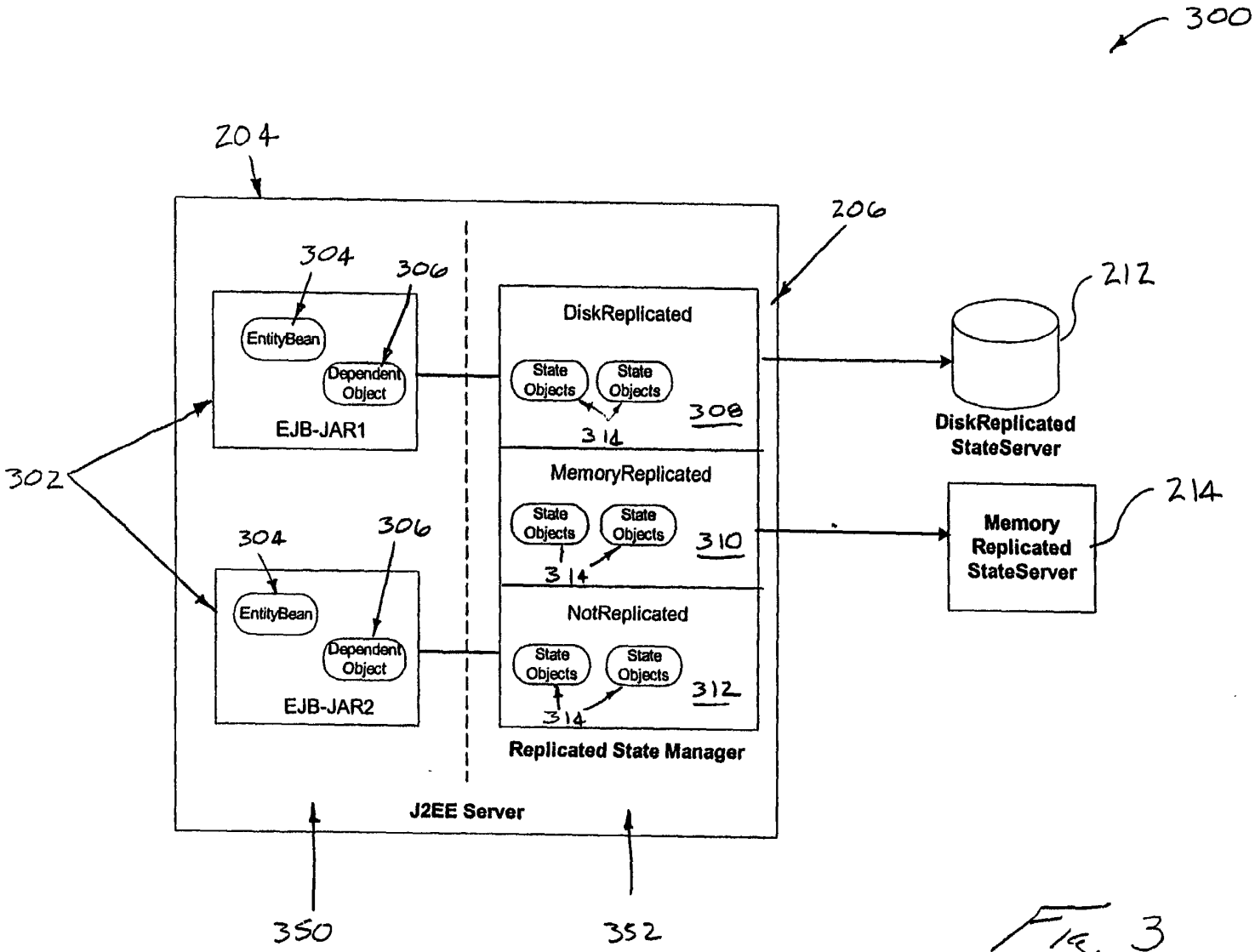

Fig. 3

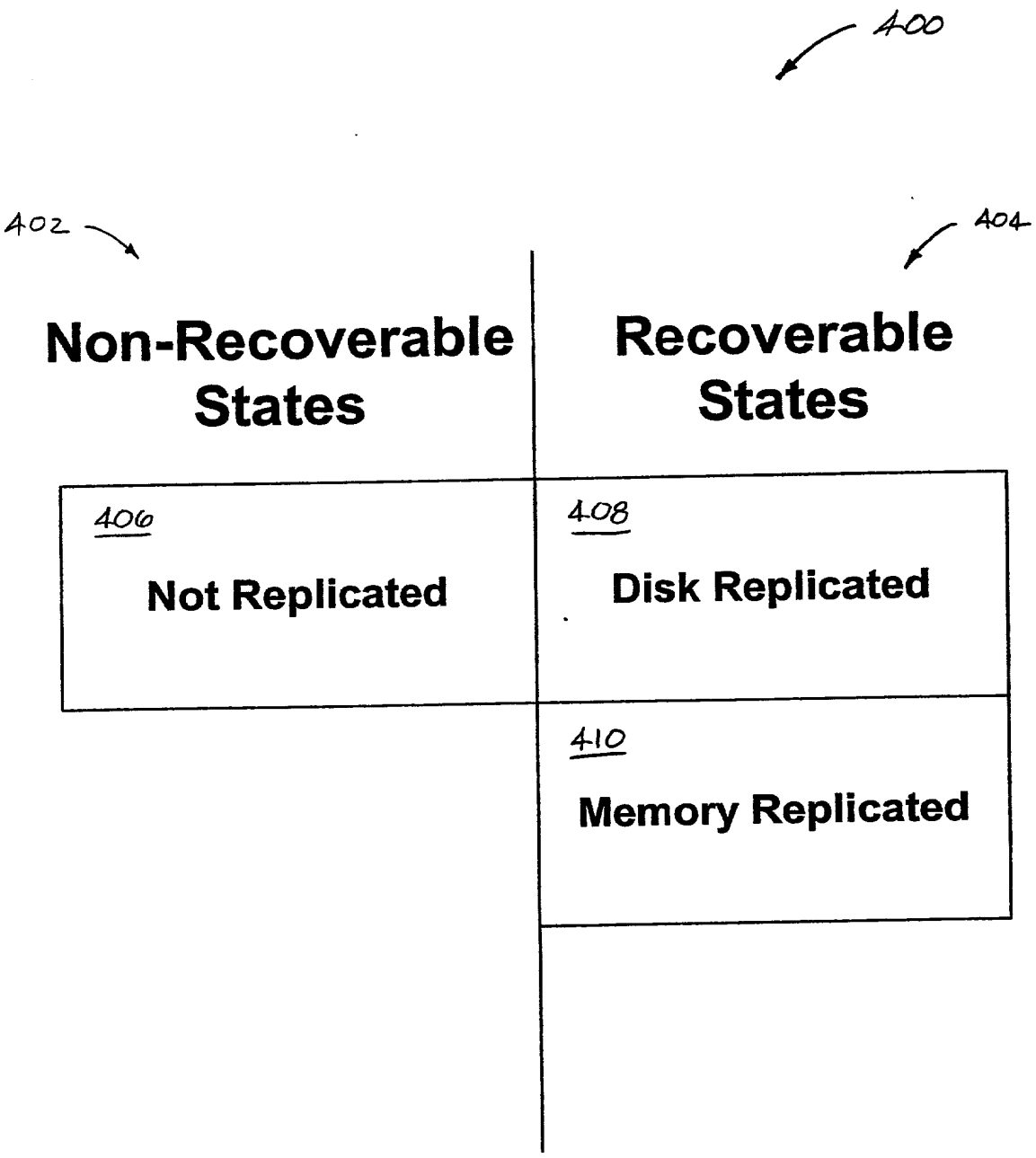
400
402
404
Non-Recoverable States
Recoverable States
406
Not Replicated
408
Disk Replicated
410
Memory Replicated

FIG. 4

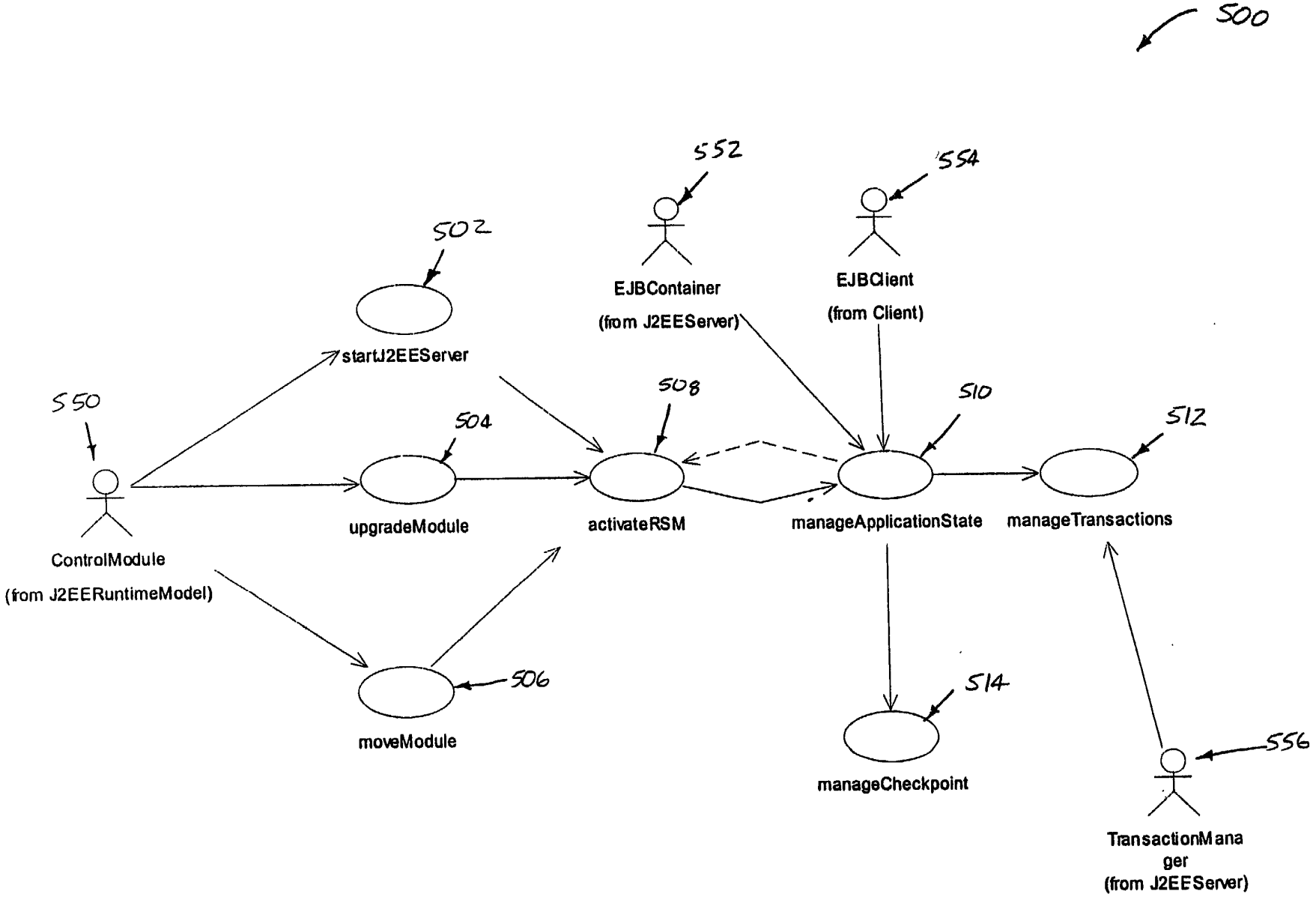
500
552
554
502
EJBContainer
(from J2EEServer)
EJBClient
(from Client)
startJ2EEServer
550
508
504
510
512
upgradeModule
activateRSM
manageApplicationState
manageTransactions
ControlModule
(from J2EERuntimeModel)
506
514
556
moveModule
manageCheckpoint
TransactionMana
ger
(from J2EEServer)

Fig. 5

FOZ0H0 6H2S23860

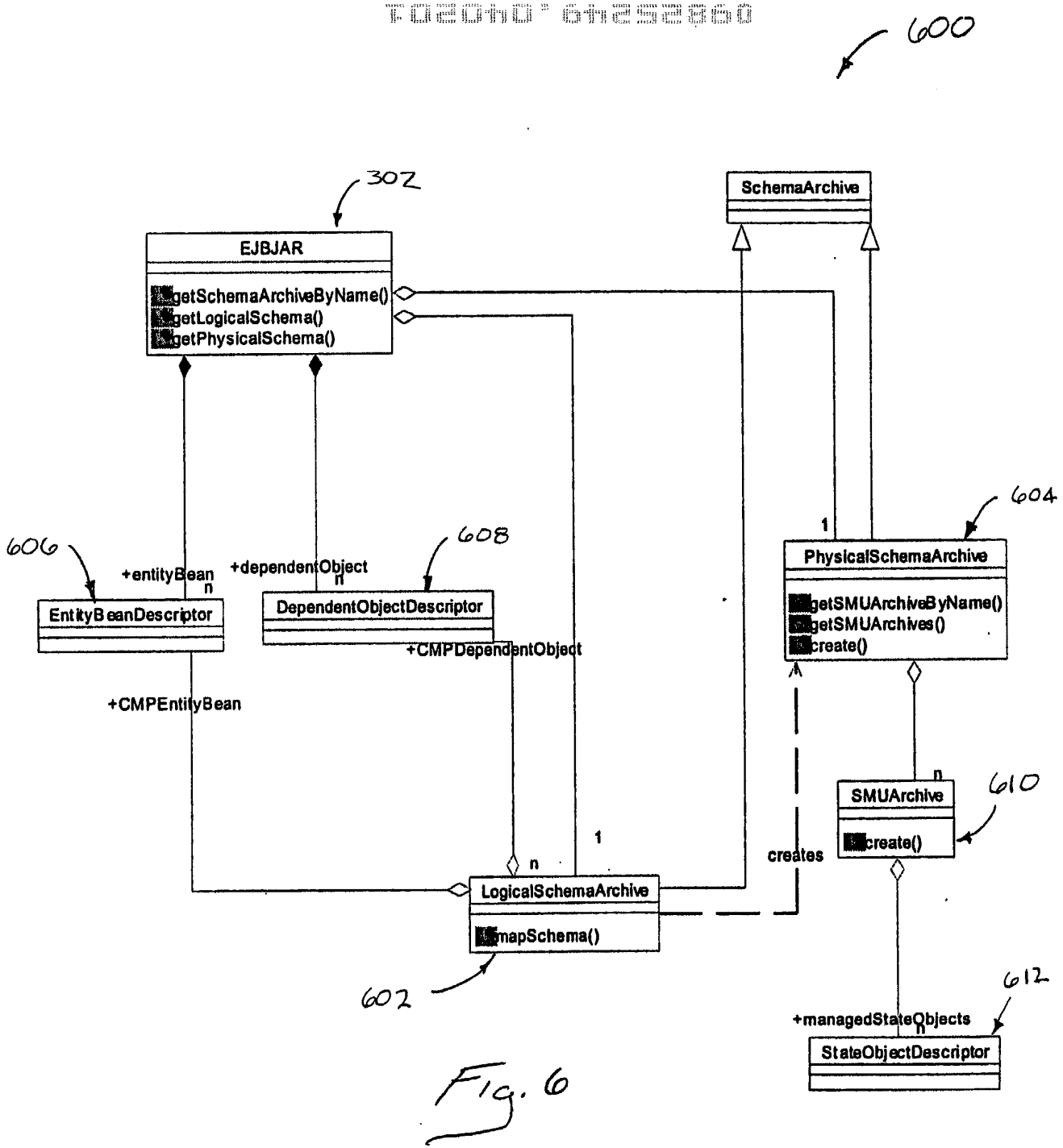

Fig. 6

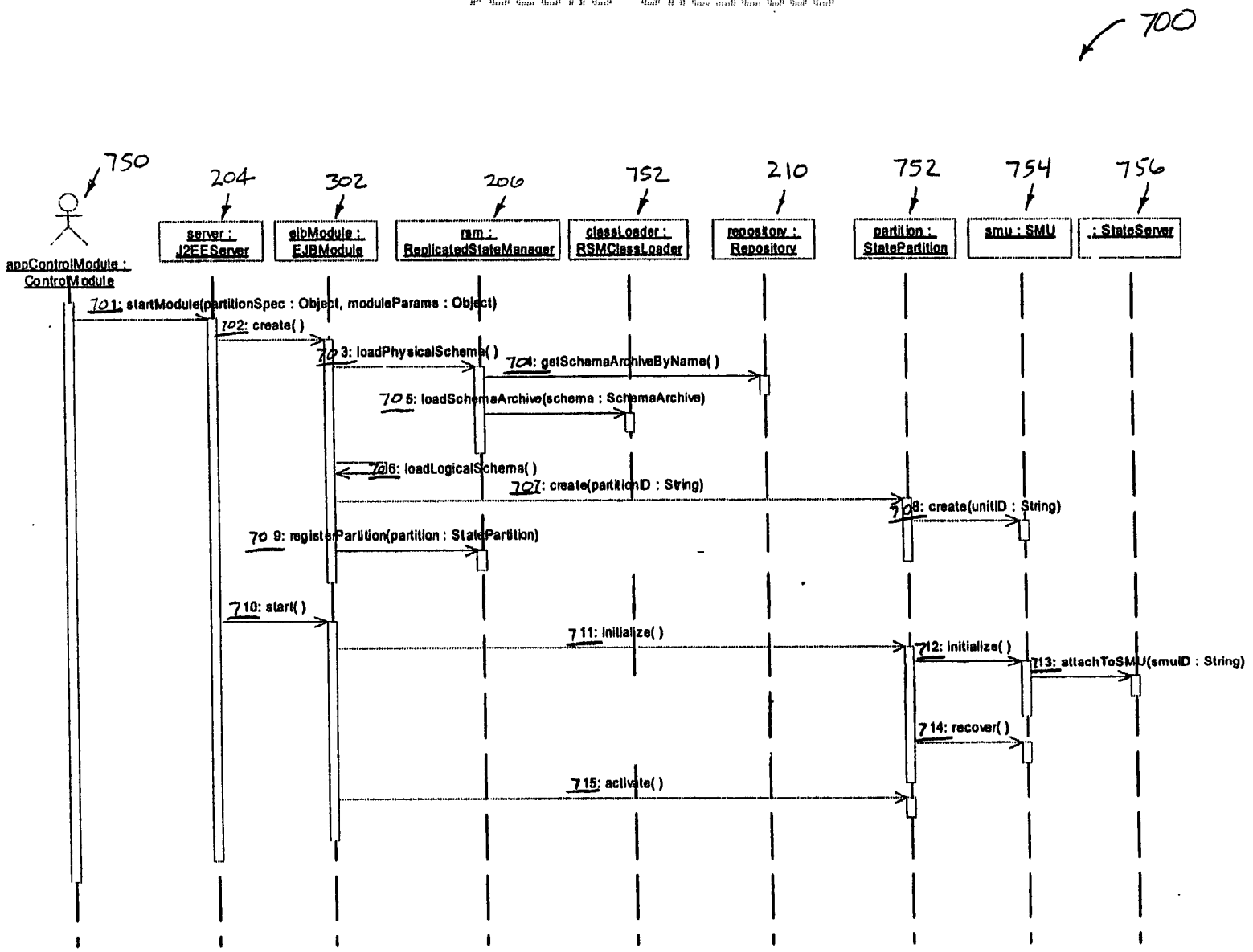
700
750
204
302
206
752
210
752
754
756
appControlModule : ControlModule
server : J2EEServer
ejbModule : EJBModule
rsm : ReplicatedStateManager
classLoader : RSMClassLoader
repository : Repository
partition : StatePartition
smu : SMU
: StateServer
701: startModule(partitionSpec : Object, moduleParams : Object)
702: create( )
703: loadPhysicalSchema( )
704: getSchemaArchiveByName( )
705: loadSchemaArchive(schema : SchemaArchive)
706: loadLogicalSchema( )
707: create(partitionID : String)
708: create(unitID : String)
709: registerPartition(partition : StatePartition)
710: start( )
711: initialize( )
712: initialize( )
713: attachToSMU(smuID : String)
714: recover( )
715: activate( )

Fig 7

[illegible]

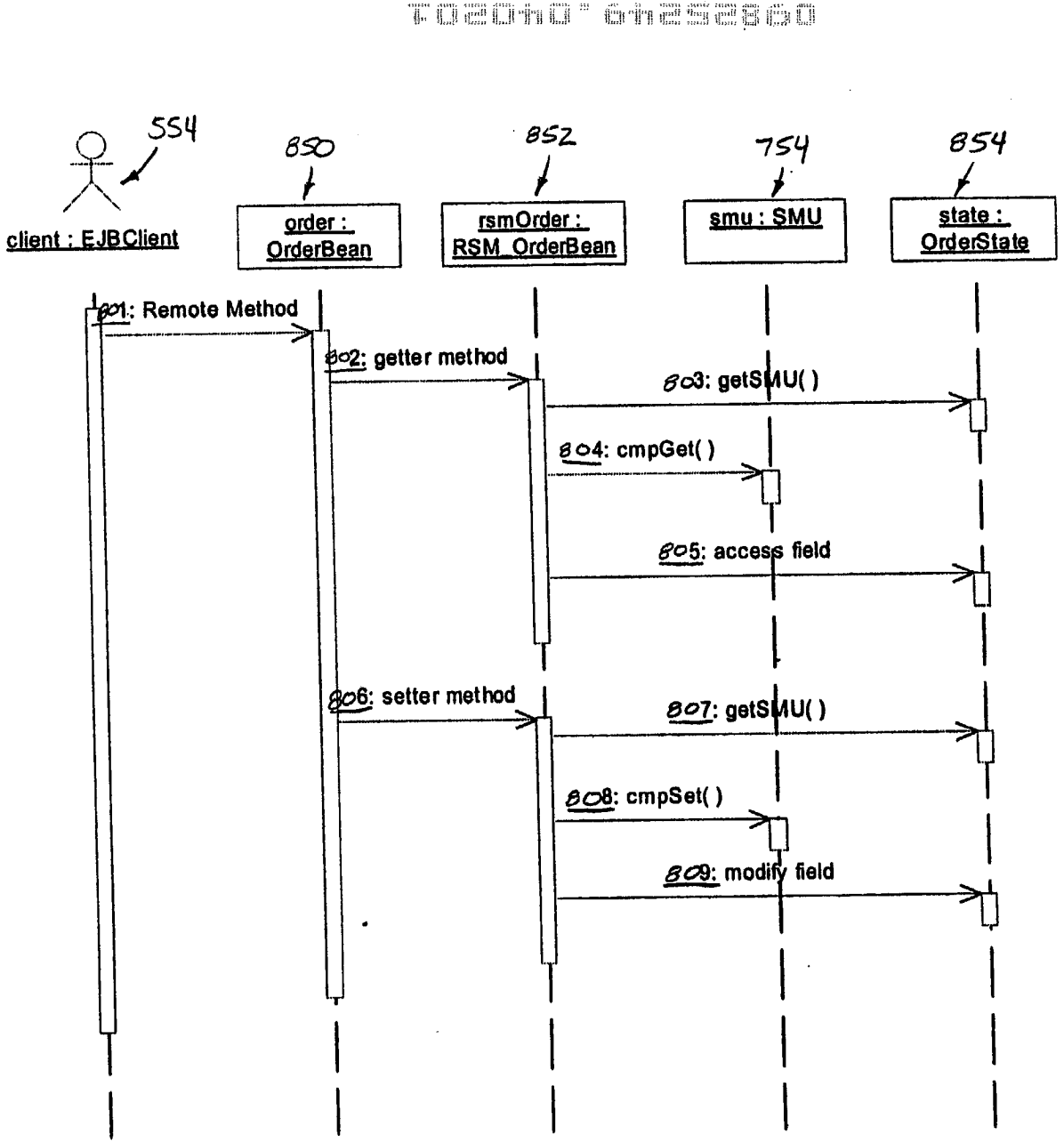
800
554
client : EJBClient
850
order : OrderBean
852
rsmOrder : RSM_OrderBean
754
smu : SMU
854
state : OrderState
801: Remote Method
802: getter method
803: getSMU( )
804: cmpGet( )
805: access field
806: setter method
807: getSMU( )
808: cmpSet( )
809: modify field

Fig. 8

TO2004/062523860

900

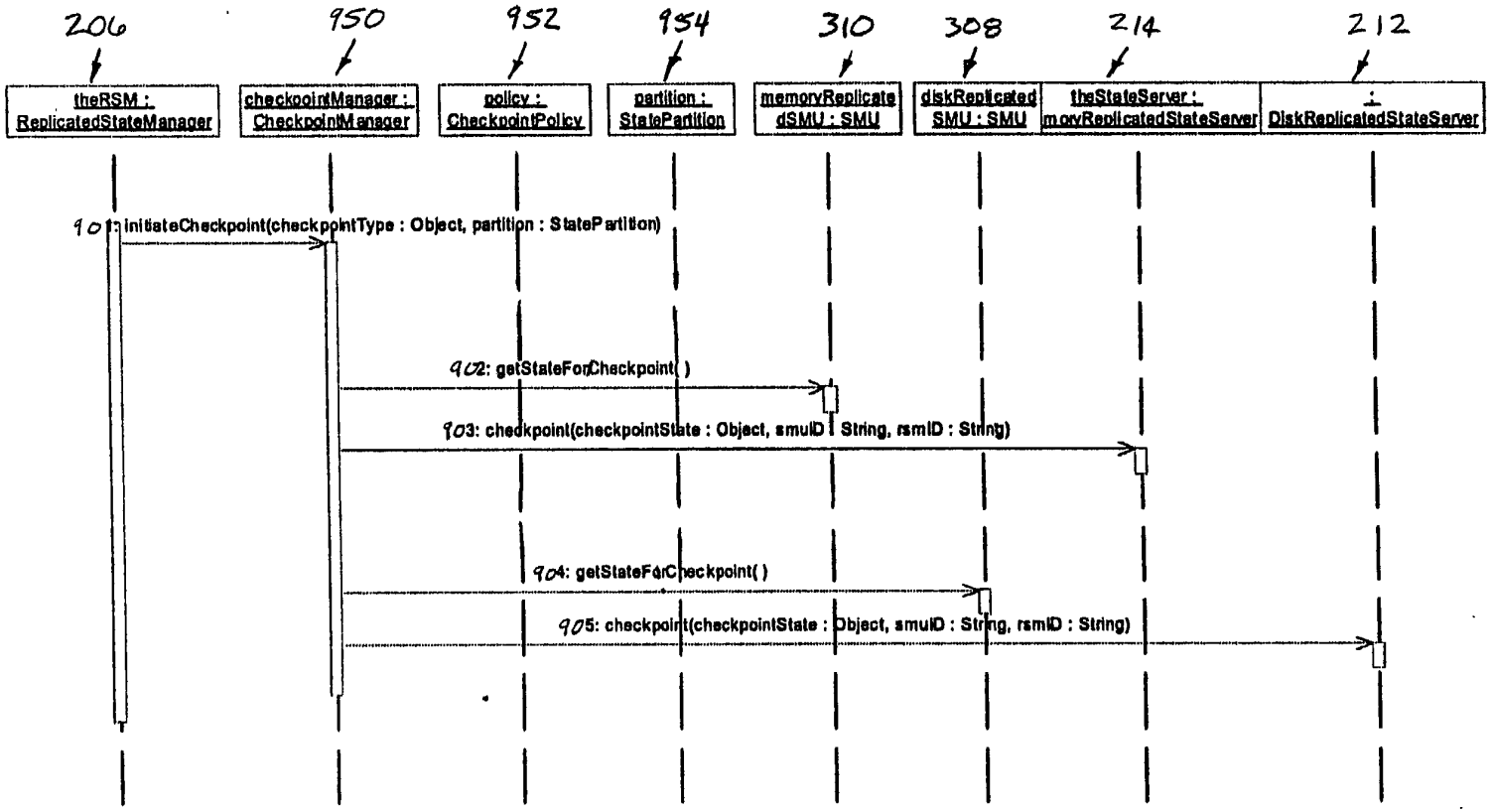

Fig 9

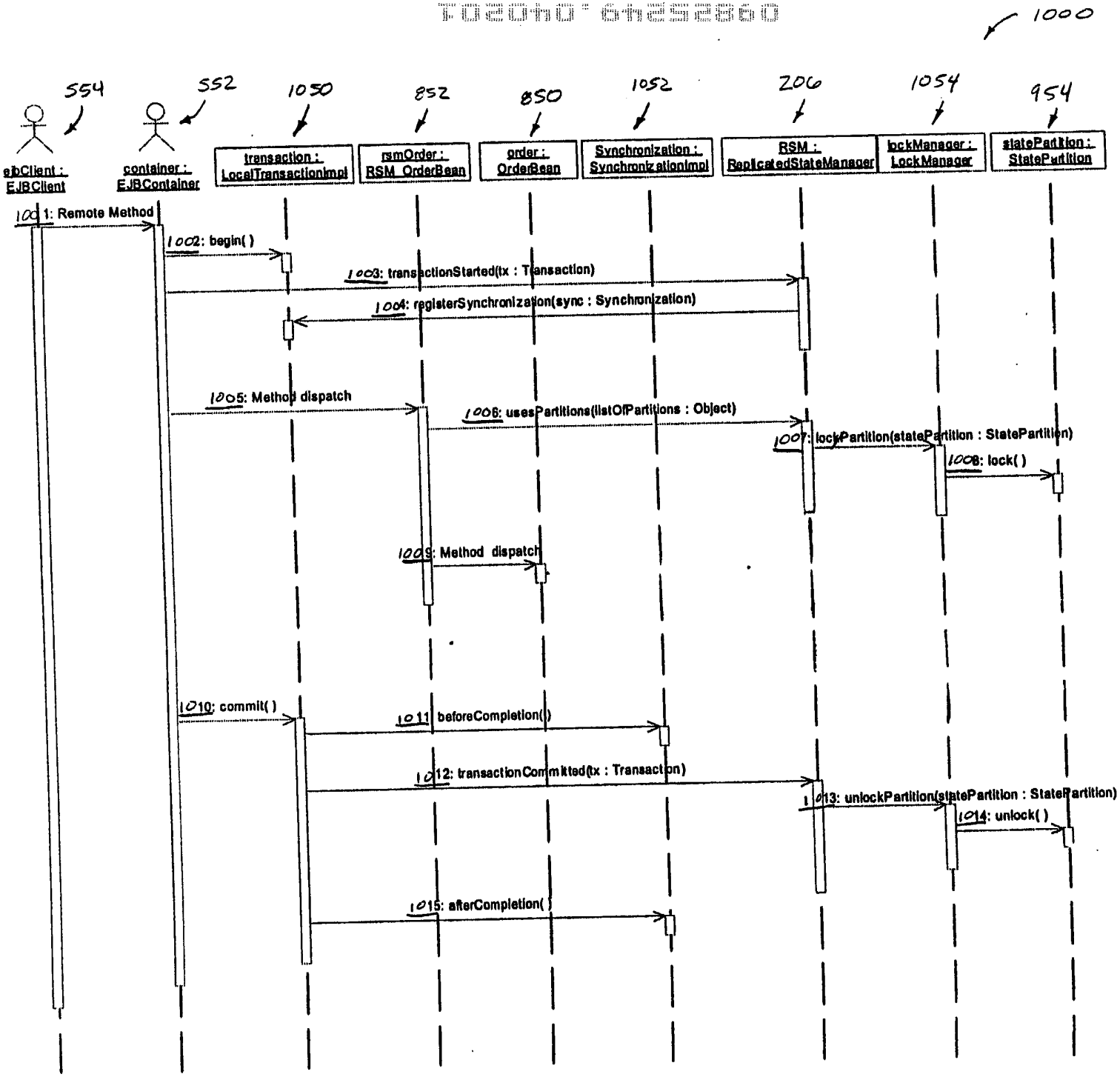
1000
554
552
1050
852
850
1052
206
1054
954
ejbClient : EJBClient
container : EJBContainer
transaction : LocalTransactionImpl
rsmOrder : RSM_OrderBean
order : OrderBean
Synchronization : SynchronizationImpl
RSM : ReplicatedStateManager
lockManager : LockManager
statePartition : StatePartition
1001: Remote Method
1002: begin( )
1003: transactionStarted(tx : Transaction)
1004: registerSynchronization(sync : Synchronization)
1005: Method dispatch
1006: usesPartitions(listOfPartitions : Object)
1007: lockPartition(statePartition : StatePartition)
1008: lock( )
1009: Method dispatch
1010: commit( )
1011 beforeCompletion( )
1012: transactionCommitted(tx : Transaction)
1013: unlockPartition(statePartition : StatePartition)
1014: unlock( )
1015: afterCompletion( )

Fig. 10